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logo
NTDB id 978572 MGAS37641 RS08220 WP 011285389.1  MKKSKWLAAVSVAILSVSALAACGNKNASGGSEATKTYKYVFVNDPKSLDYILTNGGGTTDVITGMVDGLLENDEYGNLV   80
NTDB id 475 HSISS4 RS07005 WP 021143809.1        MKKSKWLALAGVALLSVGALAACSSKSSTSG....TTYGYVYNSDPESLDYITSNTGPTKTAVTNGVDGLMEADKYGNLV   76
NTDB id 324 STU RS16140 WP 011226306.1           MKKSKWLALAGVALLGVGVLAACSSKSNTSG....TTYGYVYSSDPETLDYITSNTGPTKSVVTNGVDGLMEADKYGNLV   76
NTDB id 292 STER RS06940 WP 011681419.1          MKKSKWLALAGVALLGVGVLAACSSKSNTSG....TTYGYVYSSDPETLDYITSNTGPTKSVVTNGVDGLMEADKYGNLV   76
consensus                                        !!!!!!!!***!!*! !* !!!!**!****!    *!!*!!***!!**!!!!**!*!*!****!**!!!!*!*!*!!!!!

logo
NTDB id 978572 MGAS37641 RS08220 WP 011285389.1  PSLAKDWKVSKDGLTYTYTLRDGVSWYTADGEEYAPVTAEDFVTGLKHAVDDKSDALYVVEDSIKNLKAYQNG.EVDFKE  159
NTDB id 475 HSISS4 RS07005 WP 021143809.1        PSVAEDWSVSQDGLTYTYKIRKGVKWYTSDGEEYADVTAKDFVTGLKHAADGKAGALYLVQDSIAGLSDYLSGANKDFSN  156
NTDB id 324 STU RS16140 WP 011226306.1           PSVAEDWSVSKDGLTYTYKIRKGIKWYTSEGEEYANVTAKDFVTGLKHAADSKAGGIYLVQDSIAGLSDYLSGTNKDFSN  156
NTDB id 292 STER RS06940 WP 011681419.1          PSVAEDWSVSKDGLTYTYKIRKGIKWYTSEGEEYANVTAKDFVTGLKHAADSKAGGIYLVQDSIAGLSDYLSGTNKDFSN  156
consensus                                        !!*!*!!*!!*!!!!!!!**!*!**!!!**!!!!!*!!!*!!!!!!!!!!*!*!****!*!*!!!**!**!**!***!!**

logo
NTDB id 978572 MGAS37641 RS08220 WP 011285389.1  VGVKALDDKTVQYTLNKPESYWNSKTTYSVLFPVNAKFLKSKGKDFGT.TDPSSILVNGAYFLSAFTSKSSMEFHKNENY  238
NTDB id 475 HSISS4 RS07005 WP 021143809.1        VGVKAIDDYTLQYTLKKPEPYWNSKTTYGLLSPVNEDFLKNKGKDFGKSTDPTSILYNGPFLLKSLTAKSSIELTKNENY  236
NTDB id 324 STU RS16140 WP 011226306.1           VGVKAIDEYTLQYTLKQPEPYWNSKTTYSLLFPVNEDFLKNKGKDFGKSTDPTSILYNGPFLLKSLTAKSSIELVKNEHY  236
NTDB id 292 STER RS06940 WP 011681419.1          VGVKAIDDYTLQYTLKQPEPYWNSKTTYSLLFPVNEDFLKNKGKDFGKSTDPTSILYNGPFLLKSLTAKSSIELVKNEHY  236
consensus                                        !!!!!*!**!*!!!!* !!*!!!!!!!!!**!*!!!**!!!*!!!!!!**!!!*!!!*!!***!***!*!!!*!**!!!*!

logo
NTDB id 978572 MGAS37641 RS08220 WP 011285389.1  WDAKNVGIESVKLTYSDGSDPGSFYKNFDKGEFSVARLYPNDPTYKSAKKNYADNITYGMLTGDIRHLTWNLNRTSFKNT  318
NTDB id 475 HSISS4 RS07005 WP 021143809.1        WDKKNVHFDAIKLSYYDGSDQEALERGFTDGAYSLARVYPTSSNYSSVEKKYKDNIYYTAPGASTSAIGVNIDRQSYKFS  316
NTDB id 324 STU RS16140 WP 011226306.1           WDKKNVHFDAIKFSYYDGSDQDALVRGFTDGAYNFARVFPTSSNYASVEKKYKDNIYYTAPGASTSAIGINLDRQSYKYT  316
NTDB id 292 STER RS06940 WP 011681419.1          WDKKNVHFDAIKFSYYDGSDQDALVRGFTDGAYNFARVFPTSSNYASVEKKYKDNIFYTAPGASTSAIGINIDRQSYKYT  316
consensus                                        !!*!!!*****! *!*!!!!*******!**!** *!!**!****!*!**!*!*!!!*!************!**!*!*!**

logo
NTDB id 978572 MGAS37641 RS08220 WP 011285389.1  KKD.PAQQDAGKKALNNKDFRQAIQFAFDRASFQAQTAGQDAKTKALRNMLVPPTFVTIGESDFGSEVEKEMAKLGDEWK  397
NTDB id 475 HSISS4 RS07005 WP 021143809.1        AKKTDAEKTSTKKALLNKDFRQSINFAIDRTAYQSQMNGKDGAALALRNLFVPSDFVSAGDKTFGDLVTEKMSSYGDEWS  396
NTDB id 324 STU RS16140 WP 011226306.1           AKKTDSEKSSTKKALLNKDFRQAINFAIDRKAYQSQINGKDGATLAVRNLFVPSDFVSAGDKTFGDLVTEKMSSYGDEWS  396
NTDB id 292 STER RS06940 WP 011681419.1          AKKTDSEKSSTKKALLNKDFRQAINFAIDRKAYQSQINGKDGATLGVRNLFVPSDFVSAGDKTFGDLVTEKMSSYGDEWS  396
consensus                                        *!*** *****!!!!*!!!!!!*!*!!*!!***!*!**!*!*****!!**!!**!!**!***!!**!***!***!!!!*

logo
NTDB id 978572 MGAS37641 RS08220 WP 011285389.1  DVNLADAQDCFYNPEKAKAEFAKAKEALTAEGVTFPVQLDYPVDQANAATVQEAQSFKQSVEASLGKENVIVNVLETETS  477
NTDB id 475 HSISS4 RS07005 WP 021143809.1        GVNFTDGQDGLYNAEKAKTEFAKAKETLQADGVQFPIHLDLPVDQSSKINVAQAQSLKQTIEQSLGSDNVVIDVNQLSSD  476
NTDB id 324 STU RS16140 WP 011226306.1           GVNFADSQDGLYNAEKAKTEFAKAKDALQADGVQFPIHLDLPVDQSSKLNVAQAQSLKQTIEKSLGSENVVIDINQLSSD  476
NTDB id 292 STER RS06940 WP 011681419.1          GVNLADSQDGLYNAEKAKTEFAKAKDALQADGVQFPIHLDLPVNQSSKLNVAQVQSLKQTIEKSLGSENVVIDINQLSSD  476
consensus                                        *!! *!*!!!*!!*!!!!*!!!!!!**!*!*!!*!!**!!*!!*!*****!***!!*!!**!*!!!**!!**********
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logo
NTDB id 978572 MGAS37641 RS08220 WP 011285389.1  THEAQGFYAETPEQQDYDII.SSWWGPDYQDPRTYLDIMSPVGGGSVIQKLGIKAGQNKDVVAAAGLDTYQTLLDEAAAI   556
NTDB id 475 HSISS4 RS07005 WP 021143809.1        DIQNATLNAANAAAEDWDISNGVIWGPDYQDPSTYLDIFKTTSSENTKTFMGYDD.PNNAAAAQVGLKDYDALLDSAASE   555
NTDB id 324 STU RS16140 WP 011226306.1           DLENVTLNAANAAAEDWDISNSVAWAPDYQDPSTYLDIFKTTSSENTKAFMGYDD.PNNAAAAQVGLKDYDALLNSAASE   555
NTDB id 292 STER RS06940 WP 011681419.1          DLENATLNAANAAAEDWDISNSVGWAPDYQDPSTYLDIFKTTSSENTKAFMGYDD.PNNAAAAQVGLKDYDALLNSAASE   555
consensus                                        ********!******!*!!****!*!!!!!!*!!!!!*************!*** *!****!**!!**!**!! *!!**

logo
NTDB id 978572 MGAS37641 RS08220 WP 011285389.1  TDDNDARYKAYAKAQAYLTDNAVDIPVVA.LGGTPRVTKAVPFSGGFSWAGSKGP..LAYKGMKLQDKPVTVKQYEKAKE   633
NTDB id 475 HSISS4 RS07005 WP 021143809.1        TTDLNARYDRYAQAQAWLEDSSLVIPLTVGNGAAPVISRLTPFTGASMQVGDKNS.SDYFKYVKPQEKVVTKKEYEQSRE   634
NTDB id 324 STU RS16140 WP 011226306.1           TSDLNVRYDRYAQAQAWLEDSSLVIPLTVGNGAAPAISRLTPFTGASLQVGDKNSSNDYIKYVKPQEKVVTKKEYEQSRE   635
NTDB id 292 STER RS06940 WP 011681419.1          TSDLNVRYDRYAQAQAWLEDSSLVIPLTVGNGAAPVISRLTPFTGASLQVGDKNSSNDYIKYVKPQEKVVTKKEYEQSRE   635
consensus                                        !*!** !!**!!*!!!*!*!****!!*****!**!******!!*!*****!*!*******!**!*!*!*!!*!*!!***!

logo
NTDB id 978572 MGAS37641 RS08220 WP 011285389.1  KWMKAKAKSNAKYAEKLADHVEK   656
NTDB id 475 HSISS4 RS07005 WP 021143809.1        KWLKEKKASNEKAQKDLEKHVK.   656
NTDB id 324 STU RS16140 WP 011226306.1           KWLKEKKESNEKAQKDLEKHVK.   657
NTDB id 292 STER RS06940 WP 011681419.1          KWLKEKKESNEKAQKDLEKHVK.   657
consensus                                        !!*!*!**!!*!****!**!!*
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X non conserved

X similar

X $\geq$ 50% conserved